

**Second Year B.Sc MRT Degree Regular/Supplementary Examinations**  
**April 2025**  
**Radiotherapy I**

Time: 3 Hours

Total Marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*

**Essays:**

(3x10=30)

1. Describe the clinical features of carcinoma Breast. How do you stage carcinoma Breast. Describe the investigations and management of locally advanced breast cancer.
2. How do you stage carcinoma Stomach. What are the clinical features of carcinoma Stomach and describe the investigations required. Describe the treatment of stage II carcinoma Stomach
3. Describe the anatomy of tongue. What is the etiology of carcinoma Tongue. how do you stage carcinoma Tongue. Describe the radiation treatment of carcinoma Tongue

**Short notes:**

(8x5=40)

4. Describe 5 R' S Of radiobiology.
5. Radiation Sensitizers.
6. Etiology pathology and management of Retinoblastoma.
7. Ann Arbor staging.
8. Stage carcinoma Maxilla. Describe management of carcinoma Maxilla.
9. Enumerate the radiation toxicities while treating carcinoma Oesophagus
10. What are the different types of Sarcomas. Describe the management of Sarcoma
11. How do you classify and stage Lung cancers. Describe the management of SVCO (Superior Vena Cava Obstruction)

**Answer briefly:**

(10x3=30)

12. What is FIGO staging. Name two malignancies where it is used
13. Oxygen Effect.
14. What is bolus. Enumerate three examples where bolus is used in radiation treatment
15. Differences between Stochastic and Non-stochastic effects
16. Etiology of carcinoma Nasopharynx
17. Toxicities of Head and neck Radiotherapy.
18. What is bystander effect
19. TLD Badge
20. Patterns of cancer spread.
21. Risk factors for carcinoma Penis

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